

Claims

1. A service processing method used in a computer system comprising a plurality of computers, each of which receives
5 a message, executes a Web service on the basis of the message, and then outputs a message generated from the result of the execution, said computer system realizing a Web service by transmitting and receiving the messages among the computers, said method comprising the steps of:

10 receiving a message including first information about the service execution, and second information about notification of progress information in the service;

executing said service according to the first information; and

15 analyzing the second information, and after that, on the basis of the execution result of the service, generating a message according to the second information, and then transmitting the message to the computer that is identified by a destination of progress information notification included
20 in the second information.

2. A service processing method according to Claim 1, wherein:

if a hierarchical level included in the second information is higher than that of a source of the second
25 information, a message in which predetermined third

information about notification of progress information in the service is added to the second information is generated and is then output.

3. A service processing method according to Claim 1,
5 wherein:

a message including progress information which is identified by a degree of details of return information included in the second information is generated, and the message is then transmitted to the computer that is identified
10 by the destination of progress information notification included in the second information.

4. A service processing method according to Claim 3,
wherein:

if the degree of details of return information included
15 in the second information is maximum, a message including all progress information is generated, and the message is then transmitted to the computer that is identified by the destination of progress information notification included in the second information.

20 5. A service processing method according to Claim 3,
wherein:

if the degree of details of return information included in the second information is debug, a message including predetermined detailed progress information required for a
25 test is generated, and the message is then transmitted to the

computer that is identified by the destination of progress information notification included in the second information.

6. A service processing apparatus used in a computer system comprising a plurality of computers, each of which
5 receives a message, executes a Web service on the basis of the message, and then outputs a message generated from the result of the execution, said computer system realizing a Web service by transmitting and receiving the messages among the computers, said apparatus comprising:

10 receiving means for receiving a message including first information about the execution of the Web service, and second information about notification of progress information in the service;

execution means for executing said service according
15 to the first information; and

means for analyzing the second information, and after that, on the basis of the execution result of the service, generating a message according to the second information, and then transmitting the message to the computer that is
20 identified by a destination of progress information notification included in the second information.

7. A service processing apparatus according to Claim 6, further comprising:

means for generating and then outputting a message in
25 which predetermined third information about notification of

progress information in the service is added to the second information if a hierarchical level included in the second information is higher than that of a source of the second information.

5 8. A service processing apparatus according to Claim 6, further comprising:

 means for generating a message including progress information that is identified by a degree of details of return information included in the second information, and then for
10 transmitting the message to the computer that is identified by the destination of progress information notification included in the second information.

 9. A service processing apparatus according to Claim 6, wherein:

15 if the degree of details of return information included in the second information is maximum, a message including all progress information is generated, and the message is then transmitted to the computer that is identified by the destination of progress information notification included in
20 the second information.

 10. A service processing apparatus according to Claim 6, further comprising:

 means for generating a message including predetermined detailed progress information required for a test, and then
25 transmitting the message to the computer that is identified

by the destination of progress information notification included in the second information if the degree of details of return information included in the second information is debug.

5 11. A service processing program used in a computer system comprising a plurality of computers, each of which receives a message and executes a Web service on the basis of the message and then outputs a message generated from the result of the execution, said computer system realizing a Web service
10 by transmitting and receiving the messages among the computers, said service processing program comprising the steps of:

 receiving a message including first information about the execution of the service, and second information about notification of progress information in the service;

15 executing said service according to the first information; and

 analyzing the second information, and after that, on the basis of the execution result of the service, generating a message according to the second information, and then
20 transmitting the message to the computer that is identified by a destination of progress information notification included in the second information.

 12. A service processing program according to Claim 11, further comprising the step of:

25 if a hierarchical level included in the second

information is higher than that of a source of the second information, generating a message in which predetermined third information about notification of progress information in the service is added to the second information, and then outputting
5 the message.